

✓ I am happy to provide comments on the committee for Assessing the Science Base for Tobacco Harm Reduction. First, however, I want to say that I am very glad to see the Institute undertaking this important evaluation. The involvement of the public health community is critical to the meaningful evaluation of these products.

✓ The committee has a considerable variety of relevant expertise, as well as considerable credentials. To assist in the process, I would like to bring to your attention that, in addition to the clearly evident expertise, you check to insure that you have sufficient representation in analytic chemistry and toxicology of complex mixtures, as well as sufficient expertise in biochemistry and physiology. I mention these because:

- ✓ difficult complex* *matrix*
- if modified tobacco products have reduced delivery of certain constituents, analytical methods for their measurement in a complex mixture like smoke are critical and determining the potential effects of these reductions.
 - research into smoke uptake, or uptake of individual constituents, (either in animals or humans) will also be complex. As you know, actual exposure is a key factor in evaluating biological effects.
 - for new products with a short use history, it will be necessary to provide relevant short-term biological information. This, as you mention, will include the use of surrogate markers. Knowledge of how to use animal and *in vitro* studies to predict eventual human health outcomes will be necessary, even to establish a research agenda for unanswered questions (e.g. relating to cardiovascular disease)

tobacco

In addition, it is not clear that you have scientists with in depth knowledge of cigarettes and cigarette smoke. I understand that industry scientists are not allowed to participate on the committee. We are, therefore, available to you to share our knowledge, experience and expertise in product design and product performance, biological and chemical evaluation of cigarettes, and effective and ineffective tests for use in toxicological evaluation. We recently participated at *Health Canada's request to perform such tasks. These efforts were* *design, manufacturer* *recently published* *(provide reference)*

Atch:

PM pubs list? Yes

Health Canada citation? Yes



recently published
(provide reference)

RAC

directly?